FAMOUS STONE MOUNTAIN, 686 FEET HIGH, 7 MILES IN CIRCUMFERENCE
THE LARGEST AND MOST PICTURESQUE ROCK IN THE WORLD,
GIBRALTAR NOT EXCEPTED

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Dorian Gray

STONE MOUNTAIN GRANITE CORPORATION

PRODUCERS AND MANUFACTURERS

STONE MOUNTAIN LIGHT GRAY GRANITE FOR BUILDING WORK
DORIAN GRAY FOR MAUSOLEUMS AND MONUMENTS

OFFICE, QUARRIES AND FINISHING PLANT LOCATED AT

STONE MOUNTAIN, GA.

S·M·G·C

"BY THEIR FRUITS YE SHALL KNOW THEM"

S·M·G·C

Brandon-Nashville

IN presenting this booklet to your attention, we do so with a full knowledge that your time is already taken up with many matters, and have therefore condensed the subject matter to a few salient points, and have confined the cuts of buildings to a small number of representative structures.

If you desire more detailed information, it will afford us great pleasure to fully satisfy you in every respect, with every confidence that the most rigid investigation of our material and methods can have but one result.

THE STONE MOUNTAIN GRANITE CORPORATION operates the Granite Quarries at famous Stone Mountain, which is located 16 miles east of Atlanta, in the eastern part of DeKalb County, on the Georgia Railroad. There is also an Interurban Trolley Line from the City of Atlanta to the foot of the Mountain.

The Quarries proper are reached by a Railroad, three and a half miles long, operated by the Corporation, which runs from Stone Mountain Station, to and around the base of the ridge.

The equipment is equal in all essentials to that of any of the larger quarries in the East, and this renders the owners abundantly able to handle, with considerable ease, stone of any desired dimensions, and carry out large contracts with promptness and dispatch.

As seen from the Chemical and Physical Tests shown on other pages, the stone is well adapted to all kinds of structural and monumental work. It has been used for the construction work of Government, Municipal and Private Buildings in thirty-two states, the District of Columbia and Isthmus of Panama, views of some of which are shown on the following pages. The stone possesses a remarkable crushing strength and durability, and its physical and chemical excellence has been demonstrated by tests made by the highest authorities in the land.

Stone Mountain Granite ranks high as a structural stone, is remarkably uniform in color, texture and composition, and is free from Sulphides, Oxides of Iron and impurities of an unstable character under atmospheric conditions. The best proof of the durability of this granite is the smooth surface of the exposure, which shows the sap (partially weathered rock), to be exceedingly thin, varying from a fraction to several inches in thickness. It consists of perfectly hard and fine rock, colored a pinkish hue from partial decomposition of the biotide. The Feldspars are usually very fresh looking in this portion of the rock, and when examined microscopically, they show only incipient alteration.

We have made many friends amongst Architects, Contractors and Dealers by our efforts to produce good material and workmanship, and live up to our contracts and promises.

We manufacture Paving Blocks and furnish Crushed Stone and Screenings.

We have a well-equipped Drafting Room, with capable Draftsmen and Estimators.

During the last three years we have furnished Granite Work for 96 U. S. Postoffice Buildings throughout the United States, also the Granite required for the Dry-Dock in Balboa, Panama.

ANALYSES

Among numerous analyses made of Stone Mountain granite, those of the two leading State Chemists and Geologists are appended, viz: S. W. McCallie, State Geologist and Dr. H. C. White, State Chemist and now Chancellor of the University of Georgia.

ANALYSIS OF S. W. McCALLIE
State Geologist

Silica (SiO_2)	72.56	Soda (Na_2O)	4.94
Alumina (Al_2O_3)	14.81	Potash (K_2O)	5.30
Iron Oxide (Fe_2O_3)	.94	Loss on Ignition	.70
Lime (CaO)	1.19		
Magnesia (MgO)	.20	Total	100.64

ANALYSIS OF DR. WHITE
Of the University of Georgia

He arrived at the same results as to the approximate mechanical composition of the stone, but found its specific gravity 2,6511, indicating a porosity only equivalent to 0.47 cubic inches to the cubic foot. His additional test is as follows:

Absorption—1,000 grammes immerced in water at 60 degrees for six days gained in weight 0.22 grammes, indicating an absorption of 254.28 grains of water per cubic foot.

Mechanical Analysis—Rough mechanical analysis of 1,000 grammes showed it to contain:

Feldspar	541 grammes
Quartz	347 grammes
Mica (Muscovite and Biolite)	112 grammes

In conclusion, he adds that the ferric oxide in no wise affects the stone injuriously, while the ferric oxide is present in very small proportions, and as a constituent of mica. He adds it should "in no wise affect the value of the stone."

MECHANICAL TESTS

The following mechanical tests were made of the Stone Mountain granite under authority of the United States Government. The first was made by the Bureau of Ordnance of the Navy Department, under supervision of Major J. W. Powell, director, and F. W. Clarke, chief chemist. The second was made by Ordnance Department at Watertown Arsenal, under the direction of J. W. Reilly, Major Ordnance Department, Commanding, at the request of Board of Public Works, Cincinnati, Ohio.

A more extensive test, with six cubes of different sizes, was made at Watertown Arsenal, Mass., under the direction of C. B. Wheeler, Lt. Col., Ord. Dept., Commanding; and still later, under the same direction, and at the request of the Purchasing Department of the Panama Canal Commission, through the Bureau of Standards, Washington, who also made some tests themselves, in order to find out whether the granite could be recommended for use at the Government dry dock, in Balboa, Panama.

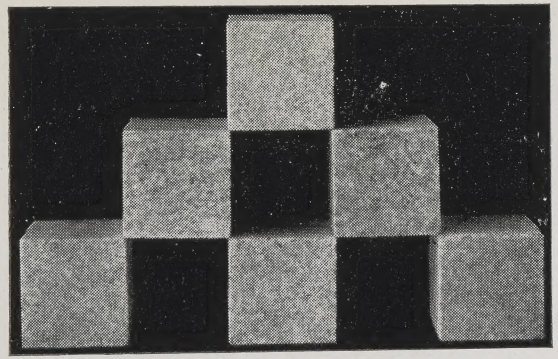
DEPARTMENT OF INTERIOR, U. S. GEOLOGICAL SURVEY.
Hon. J. W. Powell, Director: January 6, 1887.

SIR—I have examined the samples of Stone Mountain granite referred to me from the central office. The only test of any value, which could be properly applied here, was a test of the capacity of sample for absorbing water; or, in other words, a test of porosity. The sample after drying in an oven, was weighed. One face was then immerced in water and left for forty-eight hours. After that the sample was wiped, allowed to dry, at the ordinary temperature of the air, for twenty-four hours, to remove surface dampness, and again weighed. The results were as follows:

	Weight Before Soaking Grammes	Weight After Grammes
Stone Mountain	383.4	383.6
Stone Mountain	282.8	282.9

It will be seen that the pair of weights are sensibly identical; that is, practically no considerable amount of water has been taken up, and the stone is therefore not appreciably porous. The probability, deductible from these observations, is that the stone would well withstand the disintegrating action of frost.

Respectfully, F. W. CLARKE, Chief Chemist.



ORDNANCE DEPARTMENT, U. S. A.

REPORT OF MECHANICAL TESTS

MADE WITH THE U. S. TESTING MACHINE, CAPACITY 800,000 LBS.

AT

WATERTOWN ARSENAL, MASS.,

FOR

STONE MOUNTAIN GRANITE CORPORATION

Stone Mountain, Ga., March 4, 1914.

Compressive test of six (6) granite cubes for three (3) two-inch and three (3) three-inch cubes received. Cubes tested on faces marked.

Compressed surfaces faced with plaster of Paris to secure even bearings in the testing machine.

Height Inches	Compressed Surface Inches	Sectional Area sq. in.	FIRST CRACK		ULTIMATE STRENGTH	
			Load lbs.	Lbs. per sq. in.	Load lbs.	Lbs. per sq. in.
1.99	2.01x2.01	4.04	73,700	18,240	83,100	20,560
2.01	2.00x1.98	3.96	82,600	20,850	83,400	21,060
2.00	1.99x2.01	4.00	84,700	21,170	87,800	21,950
3.00	3.01x3.00	9.03	216,300	23,950	222,600	24,650
3.00	3.01x3.00	9.03	184,300	20,400	189,000	20,930
3.01	2.98x2.98	8.88	115,200	12,972	181,700	20,461

Pyramidal fractures.

C. B. WHEELER, Lt. Col. Ord. Dept., U. S. A., Commanding Ex. O. No. 121.

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
WASHINGTON

PANAMA CANAL,
PURCHASING DEPARTMENT,
WASHINGTON, D. C.

August 29, 1914.

Gentlemen:

Replying to your letter of August 4th transmitting sample of granite, Circular 857, Class 1, requesting that test be made to determine its suitability for use in sea water at about 80° F. This material was tested by crushing a 50 gram sample and boiling for twenty-four hours in distilled water and boiling a similar sample for twenty-four hours in a 5 per cent salt solution. The loss in weight was 0.07 per cent in distilled water and 0.11 per cent in the salt solution. Considered in connection with the physical qualities of this granite it may be stated that the action of sea water on this material would be practically negligible.

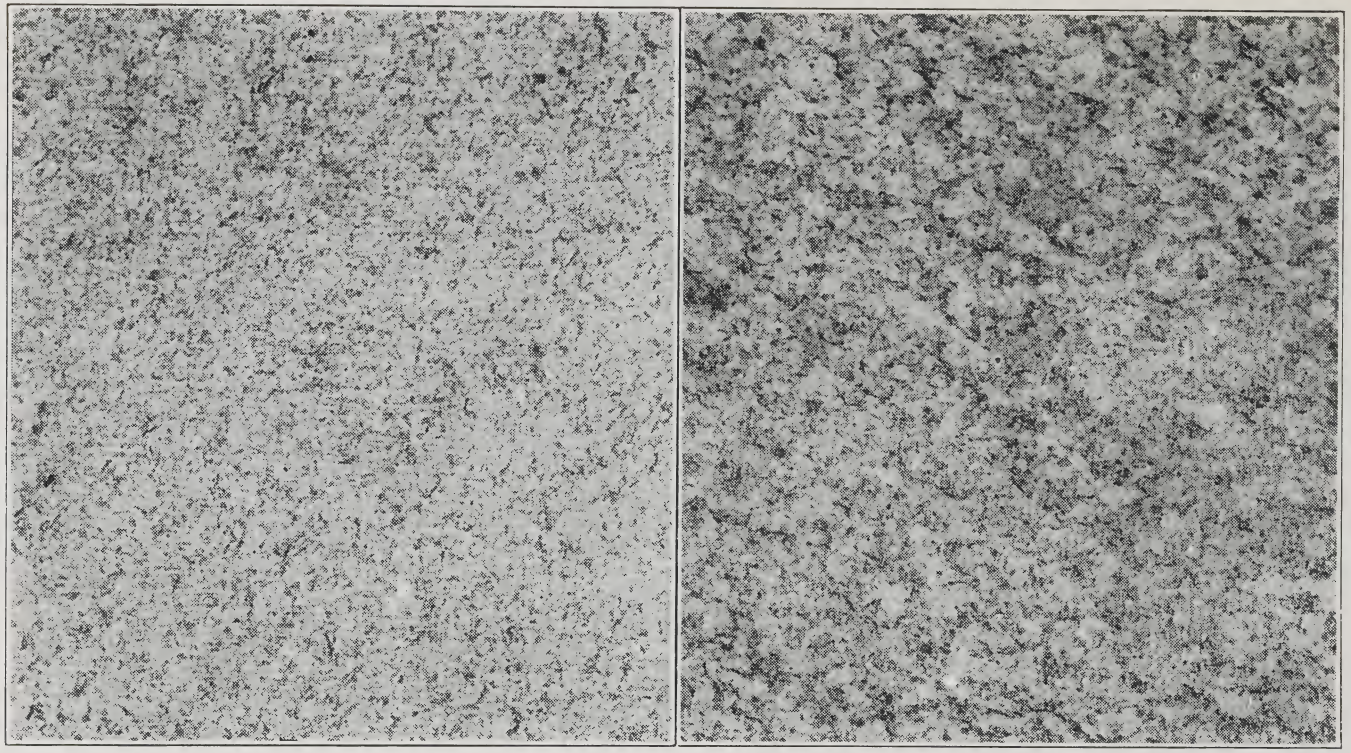
Respectfully, (Signed) S. W. STRATTON,
Director.

Photo-Micrograph of Stone Mountain Granite. From "The Granites and Gneisses of Georgia," by Thomas L. Watson, Ph.D., Atlanta, Ga.

CHARACTER OF STONE AT STONE MOUNTAIN

Description of Prof. Charles Wells Purington, of Geological Survey, Boston, Mass., who visited and critically examined the formation in August, 1894, and whose article was published in the American Geologist of that month. He also made a microscopic analysis, which is here given in his own words:

"I have examined under microscope a thin section of the Stone Mountain granite. It is a true granite, with about equal proportions of quartz and microline feldspar, which two minerals predominate over everything else. There is also considerable orthoclas feldspar. I found no praglioclase. Muscovite is the prevailing mica, and is the mineral next in quantity after the quartz and feldspar. This, as well as the biotite, which is often intergrown with it, is in parallel plates for the most part. The quartz in granites always contain a greater or less number of inclusions of liquid carbonic acid gas. It is generally thought that these are what cause granite to crack in a hot fire. The quartz in the Stone Mountain granite is remarkably free from these objectionable bubbles, as those which occur are very small. Very little of the element iron is present, in forms acted upon by the air and causing disintegration.



This photographic reproduction shows exactly the grain, color and texture of Stone Mountain Granite, both of a hammered and polished surface. The polished part offers a pleasing contrast, which is often taken advantage of by polishing the surface of raised letters. Nothing enhances the appearance of a building more than a polished Base Course, and the use of Stone Mountain Granite has always proved satisfactory for such purpose.

View taken from a point 150 feet up the Mountain slope, showing the Power Plant, Cutting Sheds, Blacksmith Shops and Crushing Plant. Since this picture was taken, Steam Power was abolished and replaced by Electric Power furnished by the Georgia Railway & Power Co., and brought from Tallulah Falls, Ga.

General view of the front part of the quarries, there being two more openings with derricks beyond the turn of the Mountain.

INTERIOR OF CUTTING PLANT No. 1

This shed is 500 feet long, equipped with two electric cranes, and can accommodate six surfacing machines, Polishers and 100 Granite Cutters

INTERIOR OF CUTTING PLANT No. 2

This shed is 250 feet long, 70 feet span. It has two electric cranes and 7 surfacing machines, and space for over 100 Granite Cutters

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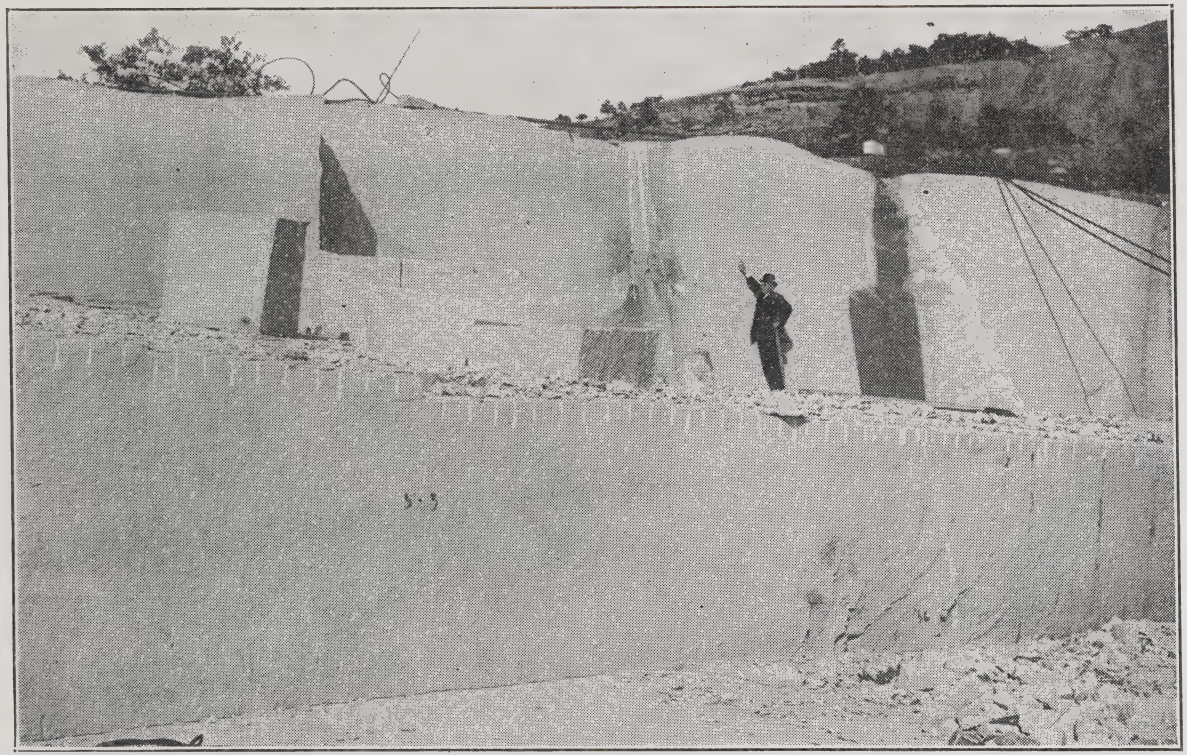


View of immense ledge in quarry, from which Monoliths of any size can be obtained

BANK IN BEAUMONT, ILL.

U. S. POSTOFFICE BUILDING, ATLANTA, GA.

Stone Mountain Granite. *James Knox Taylor, Supervising Architect.*

Contains 70,000 cubic feet of cut granite

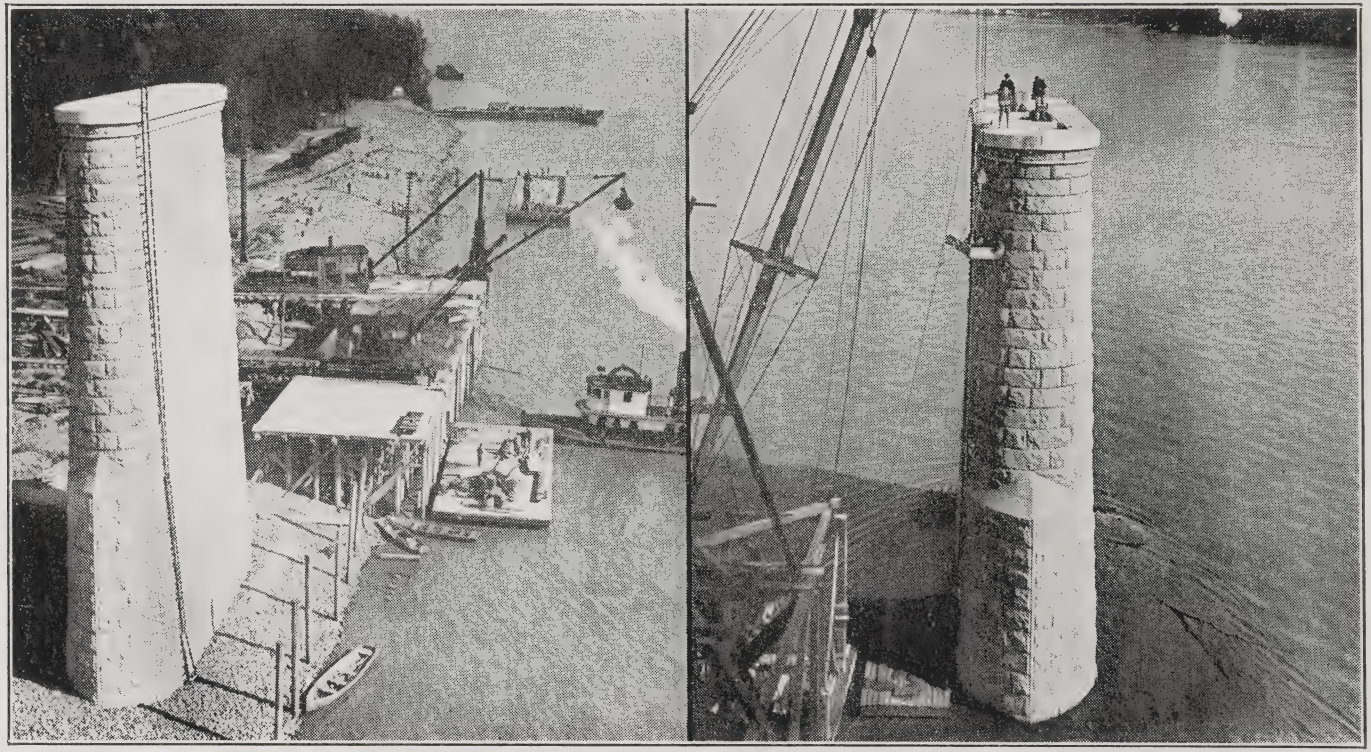
HIBERNIA BANK BUILDING, SAVANNAH, GA.

Stone Mountain Granite. 12,500 cubic feet of cut granite *Mowbray & Uffinger, Architects*

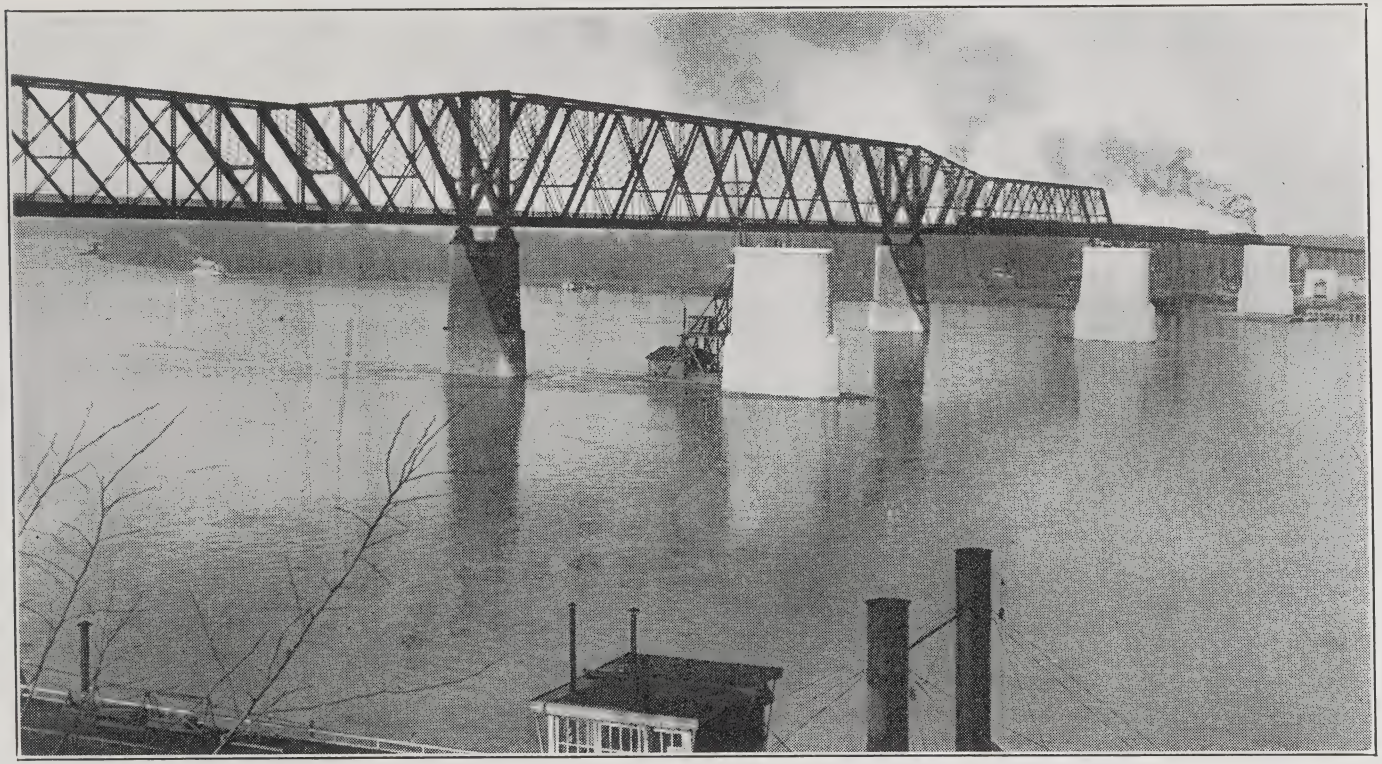
FULTON COUNTY COURTHOUSE, ATLANTA, GA.

A. Ten Eyck Brown, Morgan & Dillon, Architects.

Three Stories of finely hammered Stone Mountain Granite, containing 42,500 cubic feet.



Pier No. 1, 78′ 2⅜″x26′ 10″x93′ 3″ high. Pier No. 2, 83′ 0⅝″x31′ 6″x140′ 10″ high.
Pier No. 3, 83′ 0⅝″x31′ 6″x143′ 6″ high. Pier No. 4, 71′ 6″x24′ 6″x107½″ high.
Pier A, 75′ 0″ x 18′ 0″ x 10′ 6″ high.

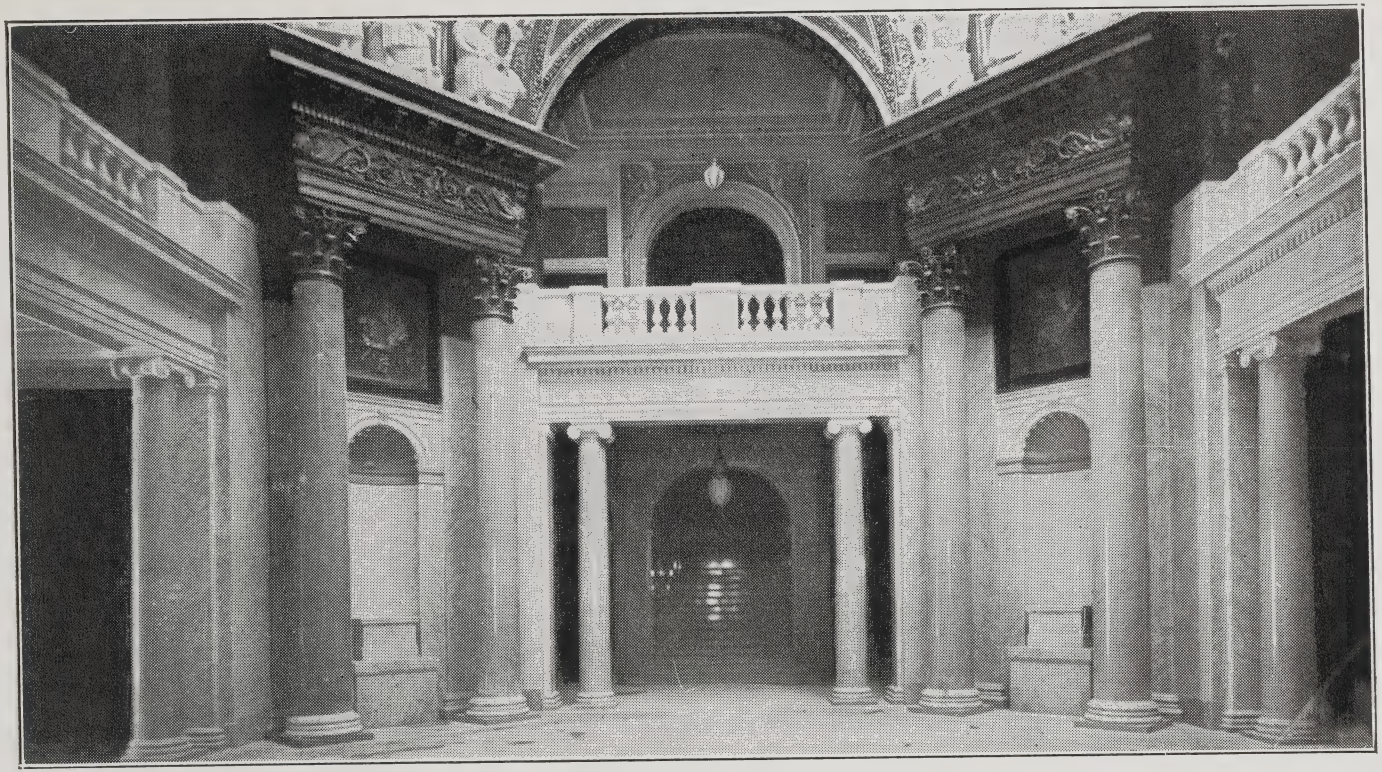


Piers of Stone Mountain Granite of the new Harahan Bridge over the Mississippi River at Memphis, Tenn. Union Bridge & Construction Co., General Contractors. Ralph Modjeski, Engineer, Chicago.
Contains 255,600 cubic feet of cut granite.

UNITED STATES POSTOFFICE, WHEELING, W. VA.

Superstructure of Stone Mountain Granite. *Marsh & Peter Architects*

34,000 cubic feet



ROTUNDA OF PULASKI COUNTY COURTHOUSE, LITTLE ROCK, ARK.

Column shafts of Polished Stone Mountain Granite.

Geo. R. Mann, Architect

RESIDENCE, ATLANTA, GA.

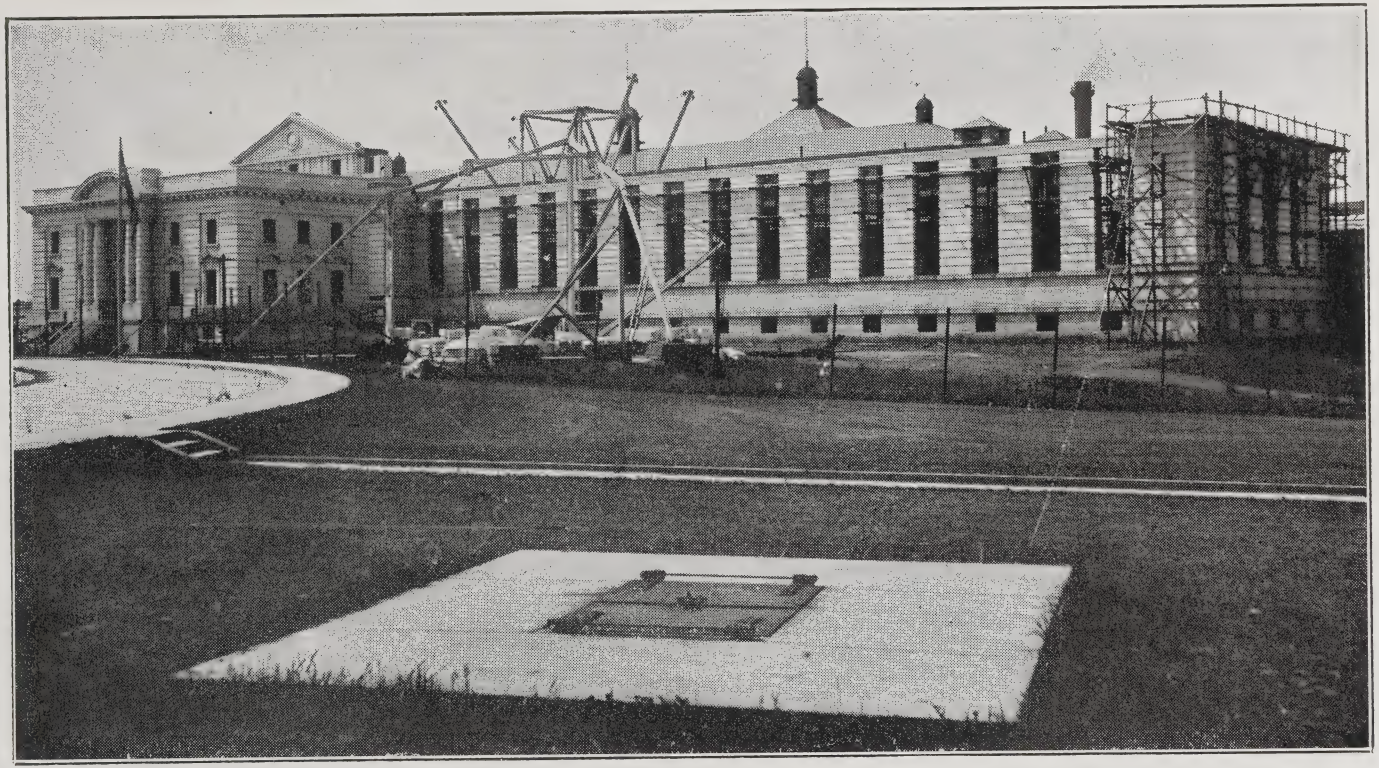
Broken range ashlars with hammered trimmings

Edwd. E. Dougherty, Architect.

MANSION IN SAVANNAH, GA. *Henrik Wallen, Architect*

EPWORTH M. E. CHURCH, SAVANNAH, GA.

Stone Mountain Granite. *A. F. N. Everett, Architect*



FEDERAL PRISON, ATLANTA, GA.

Entire Exterior of Stone Mountain Granite.

Eames & Young, Architects

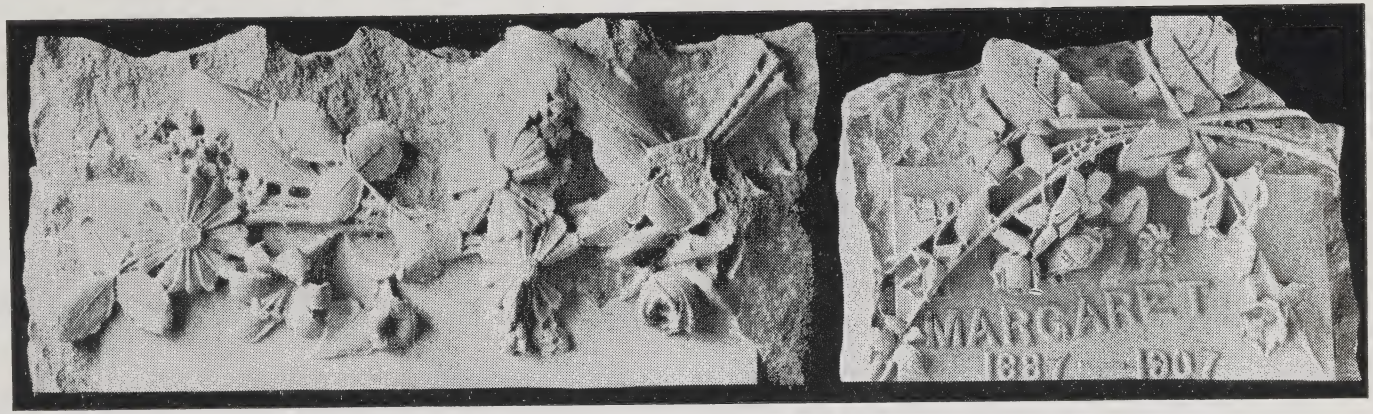
WIGHT MAUSOLEUM, NEW ORLEANS, LA.

WHITNEY MAUSOLEUM, NEW ORLEANS, LA.

BURKE MAUSOLEUM, NEW ORLEANS, LA.

HYAMS MAUSOLEUM, NEW ORLEAMS, LA.

FARWELL MAUSOLEUM, NEW ORLEANS, LA.



The exquisitely carved bunches of flowers shown in the above reproductions of photographs, present a striking illustration of what can be done with Selected Stone Mountain Granite, which we have called "Lorian Gray." Its pleasing color, evenness of texture and durability, certainly give it the essential qualities requisite to a first-class granite, making it eminently adaptable for heavy monumental and mausoleum work. Wherever it has been used for such work, it has given entire satisfaction, and its popularity is steadily increasing.

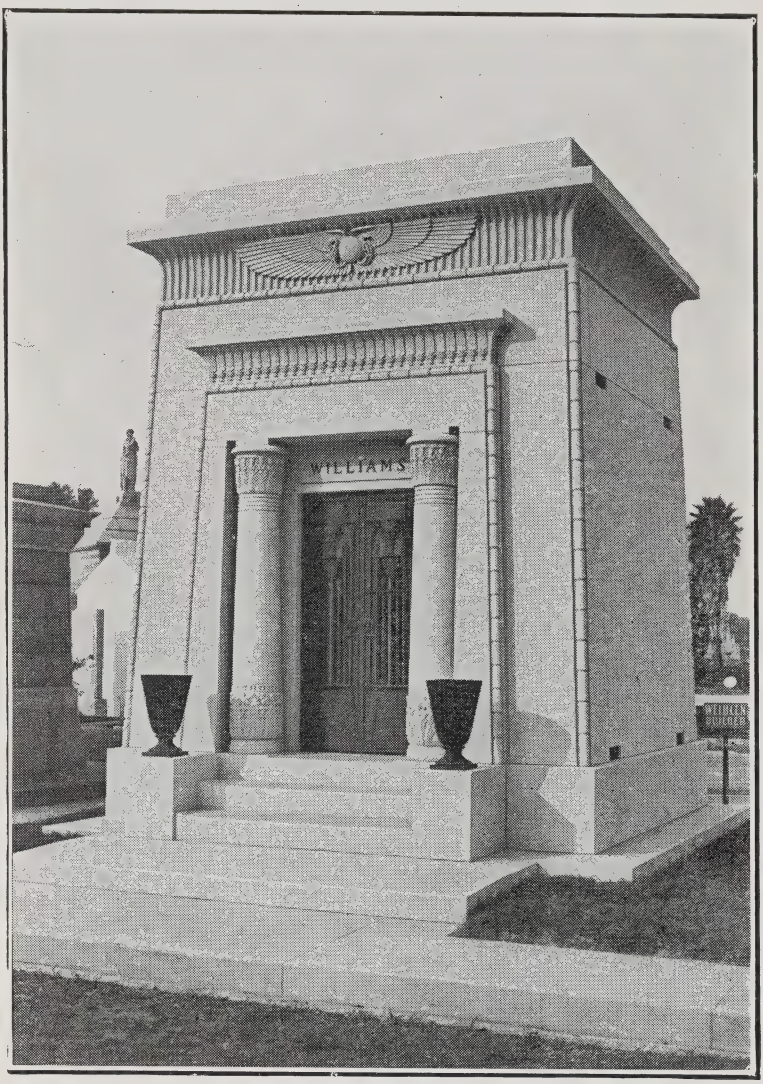
We shall be pleased to correspond with retailers regarding such work, to furnish careful estimates on any designs they may send, and if entrusted with their orders, we will guarantee to execute them in the best workmanlike and artistic manner.

WHERE STONE MOUNTAIN GRANITE HAS BEEN USED

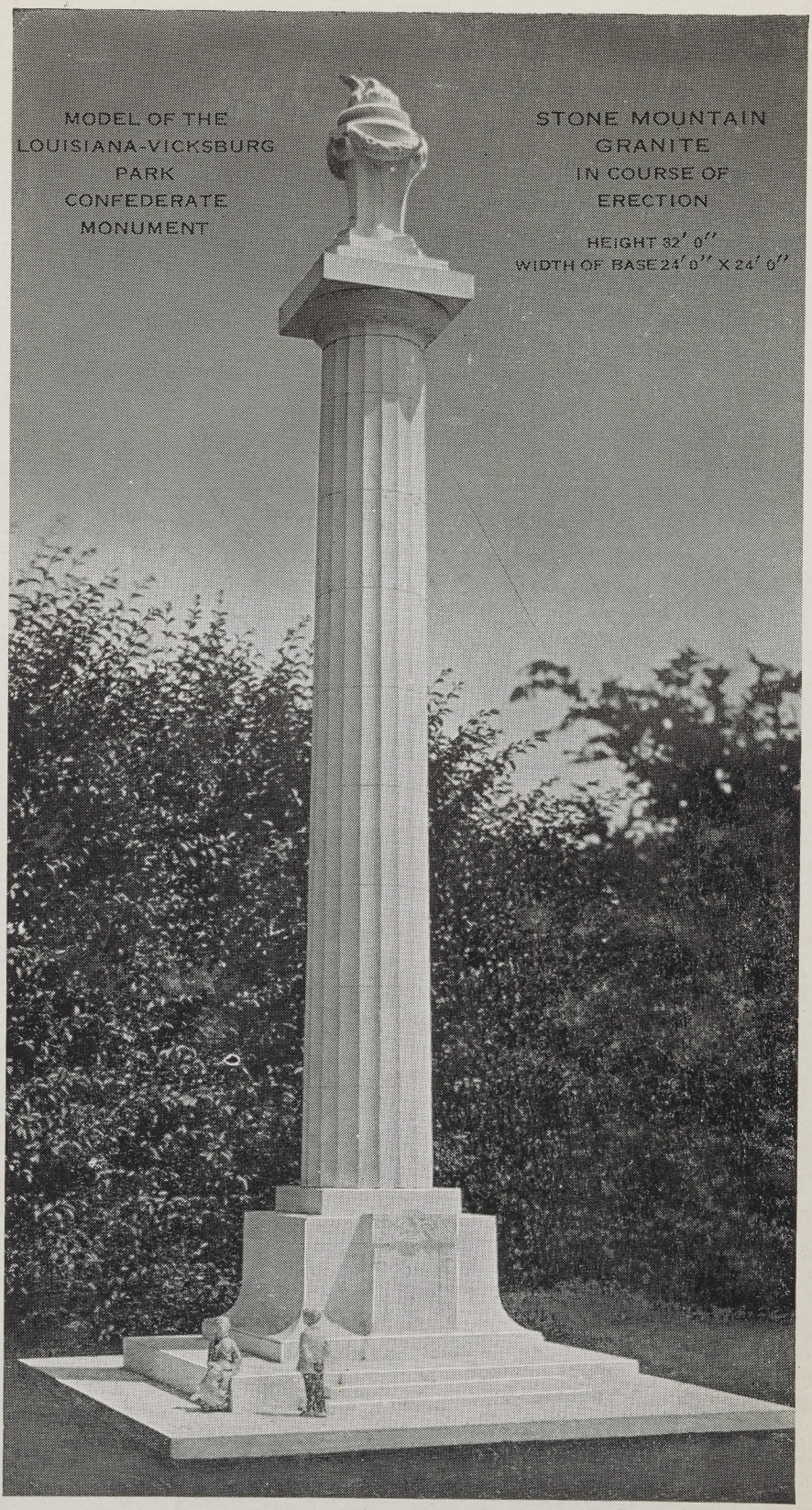
Partial list of the many Public Buildings, Offices, Bank Buildings, Mausoleums and Monuments in which this granite has been used.

BUILDINGS	LOCATION	ARCHITECTS
William Penn Hotel	Pittsburg, Pa.	Janssen & Abbott.
Terminal Station	New Orleans, La.	D. H. Burnham & Co.
Metropolitan Bank	New Orleans, La.	Diboll & Owen.
N. O. County Courthouse	New Orleans, La.	P. T. Marye-A. Ten Eyck Brown.
U. S. Penitentiary	Atlanta, Ga.	Eames & Young.
Intake Tower, St. Louis Waterworks	St. Louis, Mo.	Gurdon G. Black.
Armory Building	Savannah, Ga.	H. W. Witcover.
Epworth M. E. Church	Savannah, Ga.	A. F. N. Everett.
Third Nat'l Bank Bldg.	Atlanta, Ga.	Morgan & Dillon.
Fulton County Jail Bldg.	Atlanta, Ga.	Grant Wilkins.
United States Postoffice	Augusta, Ga.	Oscar Wenderoth.
United States Postoffice	Wheeling, W. Va.	Marsh & Peter.
United States Postoffice	Toledo, Ohio	James Knox Taylor.
Georgia State Life Bldg.	Macon, Ga.	Hentz & Reed.
First Presbyterian Church	Meridian, Miss.	P. J. Krouse.
Silvey Building	Atlanta, Ga.	Edward Dougherty.
City Hall	Tampa, Fla.	Bonfoey & Elliot.
Mt. St. Joseph School	Augusta, Ga.	J. Lloyd Preacher.
Lee County Court House	Fort Myers, Fla.	Francis J. Kennard.
First National Bank	Fort Myers, Fla.	Francis J. Kennard.
Hibernia Bank Building	Savannah, Ga.	Mowbray & Uffinger.
United States Postoffice	Atlanta, Ga.	James Knox Taylor.
Fulton Co. Court House	Atlanta, Ga.	A. Ten Eyck Brown and Morgan & Dillon.

MONUMENTS AND MAUSOLEUMS	
Gen. Beauregard Monument	New Orleans, La.
Audubon Monument	New Orleans, La.
"W. O. W." Monument	Jackson, Miss.
Base and Approaches of Ill. State Monument	Vicksburg, Miss.
Dr. Markham Monument	New Orleans, La.
Whitney Mausoleum	New Orleans, La.
Hyams Mausoleum	New Orleans, La.
F. Ramsey Mausoleum	Crawfordsville, Ind.
Sneath Mausoleum	Tiffin, Ohio.
Driscoll Mausoleum	Jefferson, Texas.
Millsaps Mausoleum	Jackson, Miss.
Bellisen Mausoleum	Patterson, La.
Sandoz Mausoleum	Opelousas, La.
Soria Mausoleum	New Orleans, La.
Fabacher Mausoleum	New Orleans, La.
Macheca Mausoleum	New Orleans, La.
Chas. Feahney Mausoleum	New Orleans, La.
H. S. Sutton Memorial	Houma, La.
W. B. Nugent Monument	Jackson, Miss.
Rowell Memorial	Jefferson, Texas.
Cobbs Mausoleum	Marshall, Texas.
Stewart-Screven Monument	Savannah, Ga.



WILLIAMS MAUSOLEUM, NEW ORLEANS, LA.


MODEL OF THE
LOUISIANA-VICKSBURG
PARK
CONFEDERATE
MONUMENT
STONE MOUNTAIN
GRANITE
IN COURSE OF
ERECTION
HEIGHT 32' 0"
WIDTH OF BASE 24' 0" X 24' 0"

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